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'-----Title-----
' File.....vb_servo1
' Started....1/26/09
' Microcontroller used:  Microchip Technology PIC16F88
'                          microchip.com

'-----Program Description-----
' Visual Basic.NET program controls PIC16F88 to control hobby servo.
' PIC microcontroller is programmed in PicBasic Pro.
' PicBasic Pro Code: micro-Engineering Labs, Inc.
'                          melabs.com

'--Free Visual Basic 2008 Express Edition--
' To download VB 2008 Express Edition, see:
' http://www.microsoft.com/express/download/

'-----PicBasic Pro Code-----
' For the PicBasic Pro code that interfaces with this VB.NET program,
' see: http://www.cornerstonerobotics.org/code/pbp_vb_servo1.pdf

'---Properties for Objects on VB Form---
'
'   Object      Property      Setting
'   -----
'
'   Button1     Name         "btnEnter"
'   Button1     Text         "Enter Position"
'   Button2     Name         "btnSend"
'   Button2     Text         "Send"

'-----Main Code-----

Imports System
Imports System.IO.Ports
Public Class Form1
    Friend myComPort As New SerialPort
    Dim Position(0) As Byte

    Private Sub btnEnter_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnEnter.Click
        Dim Prompt As String = "Enter Servo Position (80 - 220)"
        Position(0) = InputBox(Prompt, "Servo Position Input")
    End Sub

    Private Sub btnSend_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnSend.Click
        myComPort.BaudRate = 4800
        myComPort.Parity = Parity.None
        myComPort.DataBits = 8
        myComPort.StopBits = StopBits.One
        myComPort.Open()
        myComPort.Write(Position, 0, 1)
        myComPort.Close()
    End Sub
End Class

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